

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/02508

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04J14/02 H04B10/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04J H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 924 888 A (NORTHERN TELECOM LTD) 23 June 1999 (1999-06-23) cited in the application abstract paragraphs '0006!-'0011! paragraphs '0017!', '0021! figure 1	1-21
X	WO 02 09299 A (SYCAMORE NETWORKS INC) 31 January 2002 (2002-01-31) cited in the application abstract page 4, line 19 -page 7, line 2 figures 1,3  -/--	1-21



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 October 2003

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23/10/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 543 570 A (AMERICAN TELEPHONE & TELEGRAPH) 26 May 1993 (1993-05-26) abstract page 3, line 45 -page 5, line 41 figures 1,2,7 -----	1-21
X	DE 198 48 989 A (SIEMENS AG) 11 May 2000 (2000-05-11) page 2, line 56 -page 4, line 25 figure 1 -----	1-21

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/02508

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0924888	A	23-06-1999	US 6040933 A EP 0924888 A2	21-03-2000 23-06-1999
WO 0209299	A	31-01-2002	AU 7892501 A WO 0209299 A2 US 2002015201 A1	05-02-2002 31-01-2002 07-02-2002
EP 0543570	A	26-05-1993	US 5225922 A CA 2078482 A1 DE 69230848 D1 DE 69230848 T2 EP 0543570 A2 JP 2834376 B2 JP 6069891 A	06-07-1993 22-05-1993 04-05-2000 07-12-2000 26-05-1993 09-12-1998 11-03-1994
DE 19848989	A	11-05-2000	DE 19848989 A1 CA 2347687 A1 WO 0025465 A1 DE 59906383 D1 EP 1123596 A1	11-05-2000 04-05-2000 04-05-2000 28-08-2003 16-08-2001